

WHAT IS CLAIMED IS:

1. A method for producing an enhanced fertilizer, comprising the step of mixing a granular fertilizer with a ferment comprising active bacteria in a fermentation medium, to obtain an enhanced fertilizer, said ferment being used at a rate of at most 3 liters of ferment per ton of fertilizer.
2. The method of claim 1, wherein the ferment is used at a rate of 0.5 to 2.0 liter of ferment per ton of granular fertilizer.
3. The method of claim 1, wherein the ferment is cooled down prior to being mixed with the granular fertilizer.
4. The method of claim 3, wherein the ferment is cooled down to about 0°C to 12°C.
5. The method of claim 4, wherein the ferment is cooled down to about 0°C to 5°C.
6. The method of claim 1, wherein the ferment of active bacteria is obtained by fermentation of said bacteria until the end of the exponential growth phase.
7. The method of claim 6, wherein fermentation is allowed to proceed until a concentration of bacteria of at least 10^8 cells/ml is obtained.
8. The method of claim 6, wherein the fermentation medium at the end of the exponential growth phase still contains nutrients for said bacteria.
9. The method of claim 1, wherein additional fermentation medium is sprayed on the granular fertilizer.
10. The method of claim 1, wherein the ferment is sprayed onto the granular fertilizer.

11. The method of claim 1, wherein the bacteria adheres to the granular fertilizer.
12. The method of claim 1, wherein the ferment is spayed onto a binding agent, said binding agent being thereafter mixed with the granular fertilizer.
13. The method of claim 12, wherein the binding agent is selected from the group consisting of talc, flour, starch, sugar, and powdered milk.
14. The method of claim 1, wherein the ferment is subjected to a step of concentration prior to being mixed with the granular fertilizer.
15. The method of claim 14, wherein the step of concentration comprises at least one of centrifugation, dia-centrifugation, filtration and dia-filtration.
16. An enhanced fertilizer comprising:
 - a) an agglomerate chemical substance containing at least one source of at least one of nitrogen, phosphate and potassium for use as granular fertilizer on crops or soils; and
 - b) bacteria, said bacteria being active upon re-hydration.
17. The enhanced fertilizer of claim 16, wherein the bacteria are sprayed onto the agglomerate chemical substance.
18. The enhanced fertilizer of claim 16, wherein the bacteria have been dehydrated prior to getting into a latent stage or prior to sporulation.
19. The enhanced fertilizer of claim 16, wherein the bacteria are coated onto a binding agent.
20. The enhanced fertilizer of claim 19, wherein the binding agent is selected from the group consisting of talc, flour, starch, sugar, and powdered mild.

21. The enhanced fertilizer further comprising nutrients for the bacteria.